

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P506790PCT	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/GB 03/03724	International filing date (day/month/year) 28/08/2003	(Earliest) Priority Date (day/month/year) 28/08/2002
Applicant UNIVERSITY OF SUSSEX		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing:

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☒ furnished subsequently to this Authority in written form.

☒ furnished subsequently to this Authority in computer readable form.

☒ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☒ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the title,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

PEPTIDES ABLE TO SWITCH BETWEEN TWO STRUCTURAL STATES AND THEIR USE

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.

☒ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

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☐ None of the figures.

INTERNATIONAL SEARCH REPORT

Internal application No
PCT/GB 03/03724

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07K14/00 G01N33/68 C07K1/113		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 C07K G01N		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the International search (name of data base and, where practical, search terms used) CHEM ABS Data, BIOSIS, WPI Data, EPO-Internal		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	D L MC CLAIN ET AL.: "Evaluation of the energetic contribution of interhelical coulombic interactions for coiled coil helix orientation specificity" JOURNAL OF MOLECULAR BIOLOGY, vol. 313, no. 2, 2001, pages 371-383, XP004472437 LONDON, GB ISSN: 0022-2836 the whole document --- -/--	1-30
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents : "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family		
Date of the actual completion of the international search 23 February 2004		Date of mailing of the international search report 12/03/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer Masturzo, P

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Internat Application No
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	A ALFADHLI ET AL.: "Hantavirus nucleocapsid protein coiled-coil domains" JOURNAL OF BIOLOGICAL CHEMISTRY., vol. 277, no. 30, 26 July 2002 (2002-07-26), pages 27103-27108, XP002271181 AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS, BALTIMORE, MD., US ISSN: 0021-9258 the whole document	1-30
X	C MICKLATCHER & J CHMIELEWSKI: "Helical peptide and protein design" CURRENT OPINION IN CHEMICAL BIOLOGY, vol. 3, 1999, pages 724-729, XP002271182 CURRENT BIOLOGY LTD, LONDON, GB ISSN: 1367-5931 the whole document	1-30
A	M R HICKS ET AL.: "Investigating the tolerance of coiled-coil peptides to nonheptad sequence inserts" JOURNAL OF STRUCTURAL BIOLOGY., vol. 137, 2002, pages 73-81, XP002271183 ORLANDO, US ISSN: 1047-8477 cited in the application the whole document	1-30
X	B CIANI ET AL.: "A designed system for assessing how sequence affects alpha to beta conformational transition in proteins" JOURNAL OF BIOLOGICAL CHEMISTRY., vol. 277, no. 12, 22 March 2002 (2002-03-22), pages 10150-10155, XP002271184 AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS, BALTIMORE, MD., US ISSN: 0021-9258 cited in the application the whole document	1
X	E CABEZÓN ET AL.: "The structure of bovine IF1, the regulatory subunit of mitochondrial F-ATPase" EMBO JOURNAL., vol. 20, no. 24, 2001, pages 6990-6996, XP002271185 OXFORD UNIVERSITY PRESS, SURREY., GB ISSN: 0261-4189 the whole document	1

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INTERNATIONAL SEARCH REPORT

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 01 21646 A (UNIVERSITY OF SUSSEX) 29 March 2001 (2001-03-29) the whole document ----	1-30
A	D N WOOLFSON: "Core-directed protein design" CURRENT OPINION IN STRUCTURAL BIOLOGY., vol. 11, 2001, pages 464-471, XP002271245 CURRENT BIOLOGY LTD., LONDON. 21992 1, GB ISSN: 0959-440X the whole document -----	1-30

INTERNATIONAL SEARCH REPORT

Information on patent family members

Internal¹

Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
W0 0121646	A	29-03-2001	AU 7532900 A	24-04-2001
			CA 2384849 A1	29-03-2001
			EP 1212356 A1	12-06-2002
			W0 0121646 A1	29-03-2001
			JP 2003511353 T	25-03-2003
